The Third International Conference on Innovations in Computing Research (ICR'24) Athens, Greece, August 12-14, 2024

Conference Program

Monday, August 12, 2024

07.30-08.00	Conference Registration (Conference Registration Desk)
08.00-08.15	WELCOME Professor Hiroaki Kikuchi, Meiji University, Japan Conference Chair
ICR24-Session-1-I	Data Science 08.20-10.20, August 12, 2024 (In-person)
Session Chair:	Robert Polding IE University, Spain
08.20-08.40	Extracting Official Agencies' Communication Patterns During the COVID-19 Pandemic: A Text Mining Approach Shady Salama¹ , Akira Matsui ² , and Takashi Kamihigashi ¹ ¹ Kobe University, Japan ² Yokohama National University, Japan
08.40-09.00	The Hybrid Model Combination of Deep Learning Techniques, CNN- LSTM, BERT, Feature Selection, and Stop Words to Prevent Fake News Justin Hui San Zhao and Thair Al-Dala'in Western Sydney University, Australia
09.00-09.20	The Detection of Misstated Financial Reports Using XBRL Mining and Intelligible MLP Duarte Trigueiros University Institute of Lisbon, Portugal
09.20-09.40	University Student Enrollment Prediction: A Machine Learning Framework Ghazi Al-Naymat and Mohammed Azmi Al-Betar Ajman University, UAE
09.40-10.00	<i>v</i> Throt: Fine-Grained, Virtual I/O Resource Redistribution Scheme Taehoon Kim ¹ , Jaechun No ¹ , and Sung-soon Park² ¹ Sejong University, Korea ² Anyang University and Gluesys Co. LTD, Korea

10.00-10.20	Prediction of Automotive Vehicles Engine Health Using MLP and LR Hussein Jammal, ^{Joseph} El Houssainy, Farah Srour, Mostafa Tormos, Riad Sakr, and Roger Achkar American University of Science and Technology, Lebanon
10.20-10.40	BREAK
ICR24-Session-2-IR	Computer and Network Security 10.40-12.20, August 12, 2024 (In-Person/Remote)
Session Chair:	Haneen Heyasat South Australian Institute of Business & Technology, Australia
10.40-11.00	Towards Developing Generative Adversarial Networks based Robust Intrusion Detection Systems for Imbalanced Dataset using Hadoop- PySpark Md Abdur Rahman and Hossain Shahrier University of West Florida, United States
11.00-11.20	Enhancing Cybersecurity through Blockchain: An Analysis of Solutions for Threats and Vulnerabilities – An Agency Theory Perspective Haneen Heyasat ¹ and Baber Bhatti ² ¹ South Australian Institute of Business & Technology (SAIBT), Australia ² University of South Australia, Australia
11.20-11.40	Developing a Decentralized Blockchain Framework with Hyperledger and NFTs for Secure and Transparent Patient Health Records Huwida E. Said ¹ , Nedaa B. Al Barghuthi ² , Sulafa M. Badi ³ , Faiza Hashim ⁴ , and Shini Girija ¹ ¹ Zayed University, Dubai, UAE ² Higher Colleges of Technology, Sharjah, UAE ³ The British University in Dubai, Dubai, UAE ⁴ United Arab Emirates University, Al Ain, UAE
11.40-12.00	A Novel Approach Using OCR Technology to Combat Deceptive Click Attacks Yu-Sheng Lian ¹ , Fu-Hau Hsu ¹ , Yan-Ling Hwang ² , Jian-Xin Chen ¹ , Jian- Hong Huang ¹ , Hao-Jyun Wang ¹ , and Min-Hao Wu ³ ¹ National Central University, Taiwan ² Chung Shan Medical University, Taiwan ³ Xiamen City University, China
12.00-12.20	Investigating and Managing Security Threats in Hospitals: Case Study Mahmoud Bakkar Abu Dhabi University, United Arab Emirates

12.20-01.20 LUNCH BREAK (ON YOUR OWN)

ICR24-Session-3-I Computer Science and Computer Engineering Education 01.20-03.00, August 12, 2024, (In-Person)

Session Chair:	Roger Achkar American University of Science and Technology, Lebanon
01.20-01.40	Sensitivity of Automated SQL Grading in Computer Science Courses Benard Wanjiru , Patrick van Bommel, and Djoerd Hiemstra Radboud University, The Netherlands
01.40-02.00	Empowering Young Students with Disabilities through AR-enabled Hydroponic Agriculture. Mario Covarrubias ¹ , Emma Mencaci ² , Sabrina Roma ² , Domenico Bodega ³ , and Alessandra Calcagno ¹ ¹ Politecnico di Milano, Italy ² ASPOCOLLEGE, Italy ³ Università Cattolica del Sacro Cuore, Italy
02.00-02.20	Analyzing the Impact of a Deep Learning Attention Compensation System on Data Labelling Productivity in Individuals with Developmental Disabilities Yong-Man Ha ¹ and Jong-Wook Jang ² ¹ Fields Corporation, Korea ² Dong-Eui University, Republic of Korea
02.20-02.40	A Comprehensive Service Blueprint for Enhancing Coopetition Networks Agostinho da Silva ^{1,2,3,4} and Antonio J. Marques Cardoso ¹ ¹ University of Beira Interior, Portugal ² ISG – Business & Economics School, Portugal ³ CEFAGE-UE, Center for Advanced Studies in Management and Economics, Portugal ⁴ MARE, Marine and Environnemental Sciences Centre, Portugal
02.40-03.00	Curriculum Reform with Stakeholder Participation for Quality Control Vasso Stylianou ¹ , Florent Domenach ² , Andreas Savva ¹ , and George Portides ¹ ¹ University of Nicosia, Nicosia, Cyprus ² Akita International University, Japan
03.00-03.20	BREAK

ICR24-Session-4-R	Data Science 03.20-05.40, August 12, 2024 (Remote)
Session Chair:	Huwida Said Zayed University, UAE
03.20-03.40	Towards Automated Policy Predictions via Structured Attribute-Based Access Control Anna Bamberger and Maribel Fernández King's College London, UK
03.40-04.00	An Efficient and Reliable scRNA-seq Data Imputation Method Using Variational Autoencoders Widad Alyassine ¹ , Anuradha Samkham Raju ² , Ali Braytee ³ , Ali Anaissi^{1,3} , and Mohamad Naji ³ ¹ The University of Sydney, Australia ² Victorian Institute of Technology, Australia ³ The University of Technology Sydney, Australia
04.00-04.20	Early Prediction of Sepsis Utilizing Multi-Branches Multi-Tasks Hybrid Deep Learning Model Pei-Yi Hao National Kaohsiung University of Science and Technology, Taiwan
04.20-04.40	A Comparative Analysis of Random Forest and Support Vector Machine Techniques on the UNSW-NB15 Dataset Madlyn Manneh ¹ , Patrick Ansah ¹ , Sumit Kumar Tetarave¹ , Manoj Ranjan Mishra ¹ , and Ezhil Kalaimannan ² ¹ KIIT University, India ² University of West Florida, USA
04.40-05.00	Medical Image Character Recognition Using Attention-Based Siamese Networks for Visually Similar Characters with Low Resolution Efosa Osagie , Wei Ji, and Na Helian University of Hertfordshire, UK
05.00-05.20	Toward Smart Bicycle Safety: Leveraging Machine Learning Models and Optimal Lighting Solutions Mustafa Abdulfattah Habeeb¹ , Yahya Layth Khaleel ¹ , ^{and} A.S. Albahri ² ¹ Tikrit University, Iraq ² Imam Ja'afar Al-Sadiq University, Iraq
05.20-05.40	Comparing Convolutional Neural Networks and Transformers in a Points- of-Interest Experiment Paraskevas Messios ¹ , Ioanna Dionysiou ² , and Harald Gjermundrød ² ¹ European University Cyprus, Cyprus

²University of Nicosia, Cyprus

05.40-06.40Keynote Speech: Self-Organization as a Key Principle to Adaptive
IntelligenceProfessor Birgitta Dresp-Langley
UMR 7357 CNRS-Strasbourg University, France

07.30-09.30 CONFERENCE DINNER